State of Kansas



DEPARTMENT OF HEALTH AND ENVIRONMENT

Division of Environment TOPEKA, KANSAS 66612

PUBLIC WATER SUPPLY

	Date:
То	the Secretary, Department of Health and Environment, Topeka, Kansas:
In	conformance with the provisions of Kansas Statutes Annotated 65-163
	Name of Municipality, Institution, District, Company, Corporation or Person
ad do he pa	reby makes application to the Department of Health and Environment for a permit, or ditional permit due to proposed change in source, storage, or treatment, to supply water for mestic purposes to the public within the State of Kansas, in accordance with the information rein contained and with the accompanying maps, plans and specifications, which are made a rt of this application. The following questions are designed to meet the requirements of widely varying conditions. In the state of the public within the State of Kansas, in accordance with the information rein contained and with the accompanying maps, plans and specifications, which are made a rt of this application.
AI	GENERAL
1.	Type of facilities to be constructed:
2.	Give population to be served:
	SOURCE OF SUPPLY – SURFACE-WATER SUPPLY
3.	In case the proposed supply is to be taken from a river or creek, furnish the following information: (a) Name of stream
	(b) Drainage area above intake, in square miles
	(c) Approximate minimum flow of stream
	(d) Location of intake with reference to potential sources of pollution

	(e) Furnish map of general layout, together with plans of intake, suction line, dam, intak							
		well, and all other devices to be used in taking water form the river, and						
	(0)	specifications for their construction.						
	(1)	Remarks						
1.	In case the supply is to be taken from an impounding reservoir, furnish information as follows:							
	` ´	Area of water surface when reservoir is full, in acres						
(b) Maximum and average depth of water in reservoir, when full:								
		Maximum Average						
	(c)	Approximate holding capacity of reservoir when full, in gallons						
	(d)	Name of creek tributary to reservoir, and its drainage area in acres or square miles						
	(e)	Average yearly rainfall over drainage area						
	(f)	Nature of drainage area:						
		smooth or rough sand or clay						
		percent of tilled land percent of grass land						
		percent of timbered land						
	(g) What measures will be taken to protect the drainage and reservoir from							
		contamination?						
(h) What measures are proposed for protecting the supply from excessive plant								
	(11)	growths in shallow water?						
	(i)	Eurnich (1) a man of the drainage area showing the leastion of all public roads and						
	(1)	Furnish (1) a map of the drainage area, showing the location of all public roads and						
		railroads; all residences, animal feedlots, and picnic or camping grounds within the						
		limits of the area; (2) a large-scale contour map of the reservoir area; (3) plans of the						
		dam, spillway, blow-off or drain, and intake arrangement, together with specifications						
		for their construction.						
		SOURCE OF SUPPLY – GROUND-WATER SUPPLY						
5.		the proposed supply is to be taken from wells, furnish information as follows:						
	(a) Number of wells available at present							

Location of well(s) to be constructed (1/4 1/4 section, twp., R) Diameter and depth of each new well Log of the well or test holes
Diameter and depth of each new well Log of the well or test holes
Log of the well or test holes
Description of the aquifer form which the supply of water is to be obtained
State type of well casing and its diameter, length, thickness and weight per foot
State means employed to facilitate the entrance of water into the well from the aquifer. If a well screen is to be used, give length, type of material and size of openings
Give detailed results of any preliminary tests that have been made to determine the yield of the proposed wells, or any data that might be used in estimating such yields
Furnish large-scale map showing general layout of wells, together with plans and specifications for the construction of wells, well house, pumping equipment and appurtenances.
the proposed supply is to be derived from springs, furnish information as follows: Character and thickness of aquifer from which springs apparently flow

	(b)	Results of any measurements or tests that have been made to determine the yield of				
		the proposed springs or any data that might be used in estimating such yield				
	(c)	Furnish large-scale map showing general layout of springs, and plans and specifications for the construction of whatever collecting chambers, tunnels, weirs				
		and conduits are to be used to collect or store the water from the springs and convey it				
		to the point of use.				
7.	In case	the supply is to be collected from an underground source by means of infiltration				
	gallerie	es, collecting pipes or tunnels, or similar devices, furnish the following information:				
	(a)	Description and depth of aquifer from which supply is collected				
	(b)	Character and thickness of each stratum of material encountered, from the surface of				
		the ground down to the aquifer from which the water is to be obtained				
	(c)	Give results of any tests that have been made to determine the probable yield of water				
		from the proposed construction, or any data that might be used in estimating such yield				
	(d)	Furnish large-scale map showing general layout of collecting system, together with				
		plans and specifications for the construction of collecting pipes, tunnels, or galleries,				
		and of whatever weirs, conduits and other devices may be employed.				
8.	Are there any cesspools, septic tanks, sanitary sewers, feedlots, underground storage tanks					
	-	roleum products or chemicals, or other sources of pollution within 600 feet of site of ed supply?				
		pecify each, or show location on a map				
9.	Are the	ere any salt or oil wells in the vicinity that would be likely to injure the supply?				
10	Is there	e to be an auxiliary supply for emergency use, as in case of large fires?				

	If so, describe source of such supply, the connection of the same with the pumping plant, and the conditions under which it is to be used:					
	PURIFICATION					
11.	State briefly the treatment processes to be used					
12.	State basis of design of treatment works as to capacity					
13.	In case of aeration, give type and location of aerator					
14.	14. In case of preliminary sedimentation, give type, capacity, theoretical detention, overflow rate and weir loading of basin:					
15.	In case of sedimentation with coagulation, furnish information as follows: (a) Chemicals used					
	(b) Points of application of chemicals, and facilities for feeding, mixing and flocculating:					
	(c) Capacity, theoretical detention, overflow rate and weir loading of basin:					
	(d) Type of sludge disposal					
16. In case of filtration furnish information as to the following:						
(a) General type of filter						
(b) Number and dimensions of filter units						
	(c) Type and source of filter media					
	(d) Depth of filter media					

(e) Type of underdrain					
(f) Quantity and source of wash water					
(g) Filter equipment (gauges, controllers, etc.)					
(h) Type and capacity of clearwell					
17. Chlorination is required. Give information on chlorination equipment:					
(a) Make, model and capacity of equipment					
(b) Place of application					
18. What laboratory facilities and equipment are to be provided?					
(a) Make and range of chlorine residual test kit					
(b) Other					
19. Are daily operation records to be maintained?					
Specify items to be recorded					
20. Furnish general plans of the purification plant, showing relative locations and elevations of					
settling basins, filters, chemical feeds, clearwell, flood protection arrangements, and other					
general features of the plant, indicating all pipe connections. Also, furnish detailed drawings					
in all cases in which these are essential to the proper understanding of the plant.					
PUMPING AND DISTRIBUTION					
21. Low service pumps:					
(a) Type and capacity of each in gallons per minute					
(b) Suction lift in feet: ordinary; maximum					
(c) Discharge head in feet					
22. High service pumps:					
(a) Type and capacity of each in gallons per minute					
(b) Suction lift in feet: ordinary; maximum					
(c) Discharge head in feet					
23. In regard to the pipe system for distributing the supply, furnish information as follows:					

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(a)	i otai iengtn	or each s	size of pipe	in entire sy	stem:				
	1-inch	ft	4-inch	ft	10-inch	ft	ft		
	2-inch	ft	6-inch	ft	12-inch	ft	ft		
	3-inch	ft	8-inch	ft		ft	ft		
(b)	Type of pipe	to be us	ed						
(c)	Is any portion	s any portion of the pipe system to be carried over a stream on a bridge, or otherwise							
	to be exposed?								
	If so, give methods to be used to prevent freezing								
(d)	Number of fi	re hydra	nts						
(e)	Number of fl	Number of flushing hydrants							
24. In case	an elevated t	ank or st	andpipe is to	o be used, §	give the follow	ing information	ι:		
(a) Diameter and height, in feet									
(b) Capacity, in gallons									
(c)	Height of top	of tank	or standpipe	e above for	e foundation				
(d)	(d) Height of top of tank or standpipe above area of major use								
(e)									
(f)									
(g)									
25. If a pre	essure tank is	to be use	ed, give size,	, and pressi	are range				
	a around love	al ar bala	avv araund l	avial magami	oir is to be use	d aive informat			
follow	_	er or ber	ow ground is	ever reserv	on is to be use	d, give informat	,1011 as		
		ncione a	nd canacity:	when full					
(a)) Shape, dimensions, and capacity when full								
(b)	(b) Height of water level, when reservoir is full, above area of major use								
(c)	(c) Is a provision to be made to cut out the service reservoir in case of fire, and ope								
	under direct pump pressure?								

27. Furnish plans showing all details of the fac	cility for which this application is made such as,				
source of supply, transmission main, distri	bution system, and water storage tanks. Also				
furnish specification for all equipment incl	luded in the project and for all installation				
procedures where applicable.					
28. Give name of person or firm responsible for engineering					
9. How and by whom is the work of construction to be supervised?					
30. Give name of well driller:					
ΔΙΙΤ	HORITY				
31. Name and address of proper official to be	contacted:				
Signature of proper official _					
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State of Kansas, County of	99				
SWORN TO AND SUBSCRIBED before me, a nota					
day of	-				
(SEAL)					
	Notary Public				
My commission	expires				